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Patent

AMENDMENT TO THE SPECIFICATION

Please replace the first paragraph on page 13, lines 1-4, with the following paragraph:

"The conversions and yields were determined by comparing the product to the internal standard integrals, and by assuming equal response factors of the standard and the products. For the hexene dimerization experiments, 1-hexene was the internal standard, and for the butene experiments cyclohexane was used. The approximate density for 1-butene of 0.60 g/ml is included for reference. As shown in Table 1, the product of the dimerization process contained a mixture of linear and branched dimers (i.e., mixed dimers) as well as unreacted monomer. In an embodiment, the product comprises (a) mixed dimers, from about 30 to about 85 weight percent of which are linear alpha-olefin dimers and (b) less than about 80 weight percent olefinic starting material (e.g., 1-hexene, 1-butene). In an embodiment, the mixed dimers comprise less than about 5 weight percent vinylidene or tri-substituted olefins.